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<110> Vlaams Interuniversitair Instituut voor Biotechnologie

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<130> VIB-011-US

<140> US 09/242,772

<141> 1999-06-25

<150> EP 96202229.6

<151> 1996-08-22

<150> EP 97200130.9

<151> 1997-01-17

<150> PCT/EP97/04759

<151> 1997-08-22

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<170> PatentIn version 3.1

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vib11us.ST25.txt

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vib11us.ST25.txt

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<223> 8-Multiple Antigen Peptide

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<223> cDNA sequence of PLAG 1

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vib11us.ST25.txt

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<213> Homo sapiens

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<223> PLAG 1 zinc finger 1

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vib11us.ST25.txt

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Lys Arg His Leu Ala Leu His Ala Ala Thr Ser Gly Asp
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Glu Lys Lys
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Thr Arg His Met Lys Lys Ser His Asn Gln Glu Leu Leu
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<211> 2561

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Thr Phe Asn Arg Lys Asp His Leu Lys Asn His Leu Gln Thr His Asp
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Thr Met Leu Gly Tyr Lys Arg His Leu Ala Leu His Ala Ala Ser Ser
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Val Leu Leu Asp His Leu Lys Ala His Ala Glu Glu Lys Pro Pro Ser
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Tyr Thr Arg Lys Asp Val Arg Arg His Leu Val Val His Thr Gly Cys
115 120 125
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Lys Asp Phe Leu Cys Gln Phe Cys Ala Gln Arg Phe Gly Arg Lys Val
130 135 140 145
cac ctc acc cgg cat acc aag aag acc cac tca cag gag ctg atg aaa 659
His Leu Thr Arg His Thr Lys Lys Thr His Ser Gln Glu Leu Met Lys
150 155 160

vibllus.ST25.txt

gag agc ttg cag acc gga gac ctt ctg agc acc ttc cac acc atc tcg Glu Ser Leu Gln Thr Gly Asp Leu Leu Ser Thr Phe His Thr Ile Ser 165 170 175	707
cct tca ttc caa ctg aag gct gct gcc ttg cct cct ttc cct tta gga Pro Ser Phe Gln Leu Lys Ala Ala Ala Leu Pro Pro Phe Pro Leu Gly 180 185 190	755
gct tct gcc cag aac ggg ctt gca agt agc ttg cca gct gag gtc cat Ala Ser Ala Gln Asn Gly Leu Ala Ser Ser Leu Pro Ala Glu Val His 195 200 205	803
agc ctc acc ctc agt ccc cca gaa caa gcc gcc cag cct atg cag ccg Ser Leu Thr Leu Ser Pro Pro Glu Gln Ala Gln Pro Met Gln Pro 210 215 220 225	851
ctg cca gag tcc ctg gcc tcc ctc cac ccc tcg gta tcc cct ggc tct Leu Pro Glu Ser Leu Ala Ser Leu His Pro Ser Val Ser Pro Gly Ser 230 235 240	899
cct ccg cca ccc ctt ccc aat cac aag tac aac acc act tct acc tca Pro Pro Pro Pro Leu Pro Asn His Lys Tyr Asn Thr Thr Ser Thr Ser 245 250 255	947
tac tcc cca ctt gca agc ctg ccc ctc aaa gca gat act aaa ggt ttt Tyr Ser Pro Leu Ala Ser Leu Pro Leu Lys Ala Asp Thr Lys Gly Phe 260 265 270	995
tgc aat atc agt ttg ttt gag gac ttg cct ctg caa gag cct cag tca Cys Asn Ile Ser Leu Phe Glu Asp Leu Pro Leu Gln Glu Pro Gln Ser 275 280 285	1043
cct caa aag ctc aac cca ggt ttt gat ctg gct aag gga aat gct ggt Pro Gln Lys Leu Asn Pro Gly Phe Asp Leu Ala Lys Gly Asn Ala Gly 290 295 300 305	1091
aaa gta aac ctg ccc aag gag ctg cct gca gat gct gtg aac cta aca Lys Val Asn Leu Pro Lys Glu Leu Pro Ala Asp Ala Val Asn Leu Thr 310 315 320	1139
ata cct gcc tct ctg gac ctg tcc ccc ctg ttg ggc ttc tgg cag ctg Ile Pro Ala Ser Leu Asp Leu Ser Pro Leu Leu Gly Phe Trp Gln Leu 325 330 335	1187
ccc cct cct gct acc caa aat acc ttt ggg aat agc act ctt gcc ctg Pro Pro Pro Ala Thr Gln Asn Thr Phe Gly Asn Ser Thr Leu Ala Leu 340 345 350	1235
ggg cct ggg gaa tct ttg ccc cac agg tta agc tgt ctg ggg cag cag Gly Pro Gly Glu Ser Leu Pro His Arg Leu Ser Cys Leu Gly Gln Gln 355 360 365	1283
cag caa gaa ccc cca ctt gcc atg ggc act gtg agc ctg ggc cag ctc Gln Gln Glu Pro Pro Leu Ala Met Gly Thr Val Ser Leu Gly Gln Leu 370 375 380 385	1331
ccc ctg ccc ccc atc cct cat gtg ttc tca gct ggc act ggc tct gcc Pro Leu Pro Pro Ile Pro His Val Phe Ser Ala Gly Thr Gly Ser Ala 390 395 400	1379
atc ctg cct cat ttc cat cat gca ttc aga taa ttgattttta aagtgtattt Ile Leu Pro His Phe His His Ala Phe Arg 405 410	1432

vibllus.ST25.txt

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Lys Thr Phe Asn Arg Lys Asp His Leu Lys Asn His Leu Gln Thr His
 20 25 30

Asp Pro Asn Lys Met Ala Phe Gly Cys Glu Glu Cys Gly Lys Lys Tyr
 35 40 45

vib11us.ST25.txt

Asn Thr Met Leu Gly Tyr Lys Arg His Leu Ala Leu His Ala Ala Ser
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 Ser Gly Asp Leu Thr Cys Gly Val Cys Ala Leu Glu Leu Gly Ser Thr
 65 70 75 80
 Glu Val Leu Leu Asp His Leu Lys Ala His Ala Glu Glu Lys Pro Pro
 85 90 95
 Ser Gly Thr Lys Glu Lys Lys His Gln Cys Asp His Cys Glu Arg Cys
 100 105 110
 Phe Tyr Thr Arg Lys Asp Val Arg Arg His Leu Val Val His Thr Gly
 115 120 125
 Cys Lys Asp Phe Leu Cys Gln Phe Cys Ala Gln Arg Phe Gly Arg Lys
 130 135 140
 Val His Leu Thr Arg His Thr Lys Lys Thr His Ser Gln Glu Leu Met
 145 150 155 160
 Lys Glu Ser Leu Gln Thr Gly Asp Leu Leu Ser Thr Phe His Thr Ile
 165 170 175
 Ser Pro Ser Phe Gln Leu Lys Ala Ala Ala Leu Pro Pro Phe Pro Leu
 180 185 190
 Gly Ala Ser Ala Gln Asn Gly Leu Ala Ser Ser Leu Pro Ala Glu Val
 195 200 205
 His Ser Leu Thr Leu Ser Pro Pro Glu Gln Ala Ala Gln Pro Met Gln
 210 215 220
 Pro Leu Pro Glu Ser Leu Ala Ser Leu His Pro Ser Val Ser Pro Gly
 225 230 235 240
 Ser Pro Pro Pro Pro Leu Pro Asn His Lys Tyr Asn Thr Thr Ser Thr
 245 250 255
 Ser Tyr Ser Pro Leu Ala Ser Leu Pro Leu Lys Ala Asp Thr Lys Gly
 260 265 270
 Phe Cys Asn Ile Ser Leu Phe Glu Asp Leu Pro Leu Gln Glu Pro Gln
 275 280 285
 Ser Pro Gln Lys Leu Asn Pro Gly Phe Asp Leu Ala Lys Gly Asn Ala
 290 295 300

vibllus.ST25.txt

Gly Lys Val Asn Leu Pro Lys Glu Leu Pro Ala Asp Ala Val Asn Leu
305 310 315 320

Thr Ile Pro Ala Ser Leu Asp Leu Ser Pro Leu Leu Gly Phe Trp Gln
325 330 335

Leu Pro Pro Pro Ala Thr Gln Asn Thr Phe Gly Asn Ser Thr Leu Ala
340 345 350

Leu Gly Pro Gly Glu Ser Leu Pro His Arg Leu Ser Cys Leu Gly Gln
355 360 365

Gln Gln Gln Glu Pro Pro Leu Ala Met Gly Thr Val Ser Leu Gly Gln
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Leu Pro Leu Pro Pro Ile Pro His Val Phe Ser Ala Gly Thr Gly Ser
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Ala Ile Leu Pro His Phe His His Ala Phe Arg
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cacacgtgca atccctgaac tgacaaaact gctaaatgac gaggaccagg tgggtggttaa 720

vib11us.ST25.txt

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vib11us.ST25.txt

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cttgttttgg acagtttacc agttgccttt tatcccaaag ttgttgtaac ctgctgtgat	3300
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vib11us.ST25.txt

acctttatat gtggttgaat tcttggttctt ggtttcacag aaggtatatt agcaaagcat 180
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<220>
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 gtaatagctg ggggttttct cacaagtcaa agacaaattg tctgttttca agcgtgtgaa 180
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 ggcaacttat aattattaac tgtggaatat ctttgaaaaa tgtttttngc agamgttatg 180
 ttcccatctc tgactggmgc tcattataaa taccatctt ctctgaatag cgcaaggact 240
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vib11us.ST25.txt

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 tatcgcccnng gcnvcagtgc agtggcacaa tctcaactca ctgcaacctc tgcctgccag 180
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 taattaaaga tttttttata aaavvtactc taggcccata aggcttcaca ggttaattgt 180
 attaaatatt taaggaaaaa ataataccaa tcttattcat agtctttcag aaaatagagg 240
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 aggmcatctg aaagaagaag gggaagaagg aagaggaaga ggaggagaaa gggaagcagg 360
 agatggagaa gaaggaagcc aggtacagtg caatatttct catgaacata aacacaattt 420

vibllus.ST25.txt

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agkgtgtgga ctttacgcac atccagaaaa agttctagca caaattgttt thgtmttyata		240
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caatat		306

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 <223> EM317

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caaataattt ttaaagttaa agcccccttc tgacatgaca cgtccatggg tccttcaccc		180
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gawtccccctg aagttaccta gmcccmccat acagtttctg actccctawm ccgggggtac		300
cytcccatgy ctggctaata ytgabyttg tdtaccgtgg cttctgtgtt actacatttg		360
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vib11us.ST25.txt

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 cagaaaggca aggctggagt cgactgaagg ctggagagcc actgctttaa caagtgtamc 240
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<220>
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vib11us.ST25.txt

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 atcagahttt ttttttttga gatggagtct cgctctgtca cnmaggctvg tgtgcagtgg 180
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 agagcatatt ttattatcct catttacctw htctagtaag gcattttttc tttttttctt 180
 actagagata taaggcttag gaaaaaagtg aatactacga taaatgaata ctaggaaaag 240
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 aargaaa 307

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<220>
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 <222> (1)..(164)
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 acattgagga cttctggttg aaaattacag agtgggtgaag attc 164